DESCRIPTION
Dynamon BT4 is a liquid super-plasticising admixture for quality concrete (waterproof, durable and high strength) with a reduced loss in workability.

Dynamon BT4 is a formaldehyde-free admixture for concrete made from acrylic polymers.

WHERE TO USE
Because of the high workability (S4 or S5 consistency class according to EN 206-1) which can be achieved with Dynamon BT4 when a low amount of mixing water is used, concrete made with Dynamon BT4 is easy to apply while fresh and offers high mechanical performance once hardened.

Dynamon BT4 is particularly suitable for all those applications where a considerably low amount of mixing water is required.

The most widely used applications for Dynamon BT4 are as follows:
- waterproof, durable concrete with high compressive strength according to exposure classes in EN 206-1;
- high-performance, ready-mixed concrete with a good maintenance of workability;
- pumped concrete.

Some application examples
Thanks to the considerable reduction in the amount of mixing water required and its capacity of maintaining the workability of freshly-mixed concrete, Dynamon BT4 is a super-plasticiser particularly suitable for the following:
- ready-mixed concrete with a high maintenance of workability when sites require S4 or S5 consistency class according to EN 206-1);
- high-quality, ready-mixed concrete;
- pumped concrete.

TECHNICAL CHARACTERISTICS
Dynamon BT4 is a formaldehyde-free water solution with acrylic polymers which is an efficient disperser of cement granules, together with other components which considerably improve the cohesion and pumping capacity of concrete.

HOW TO USE
Dynamon BT4 develops its maximum dispersion action when it is added after all the other components in the mix (cement, aggregates, minerals or fillers and at least 80% of the mixing water).

COMPATIBILITY WITH OTHER PRODUCTS
Dynamon BT4 is compatible with other products used to manufacture special concrete, and especially with:
- hardening accelerating chloride-free admixtures from the Mapefast range for reaching very high mechanical strengths at early ages;
- air entraining agents from the Mapeair range to produce concrete resistant to freeze/thaw cycles;
- Mapeplast SF admixture in powder form, made from micro-silica to produce “top quality”, high-strength concrete with good waterproofing and durability properties;
- Expancrete expansive agent, to produce compensated-shrinkage concrete;
- fly-ash to produce concrete with artificial pozzolana;
- form release agents Mapeform Eco and DMA used to strip form-work from concrete;
TECHNICAL DATA (typical values)

PRODUCT IDENTITY

<table>
<thead>
<tr>
<th>Consistency:</th>
<th>liquid</th>
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<tbody>
<tr>
<td>Colour:</td>
<td>amber</td>
</tr>
<tr>
<td>Density according to ISO 758 (g/cm³):</td>
<td>1.06 ± 0.02 at +20°C</td>
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<tr>
<td>Main action:</td>
<td>increased and extended workability and/or reduction of water content</td>
</tr>
<tr>
<td>Classification according to EN 934-2:</td>
<td>high range water reducing, superplasticizer, tables 3.1-3.2</td>
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<tr>
<td>Classification according to ASTM C494:</td>
<td>type F</td>
</tr>
<tr>
<td>Classification according to ASTM C1017:</td>
<td>type II</td>
</tr>
<tr>
<td>Chlorides soluble in water according to EN 480-10 (%):</td>
<td>&lt; 0.1 (absent according to EN 934-2)</td>
</tr>
<tr>
<td>Alkali content (Na₂O equivalent) according to EN 480-12 (%):</td>
<td>&lt; 2</td>
</tr>
<tr>
<td>pH content according to ISO 4316:</td>
<td>6 ± 1</td>
</tr>
</tbody>
</table>

• curing agents from the Mapecure range to protect concrete structures without form-work against quick evaporation of the mixing water (floors).

CONSUMPTION

Dosage in volume:
from 0.5 to 1.5 litre per 100 kg of cement.
Different dosages from those suggested must be previously tested through concrete trials, in addition to consulting MAPEI Technical Services Department.

PACKAGING

Supplied in bulk quantities, 200 litre drums and 1000 litre tanks.

STORAGE

Dynamon BT4 may be stored for up to 12 months in sealed containers protected from frost.
If exposed to direct sunlight, the colour of the product may change, without causing any change to its performance characteristics.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Dynamon BT4 is not considered dangerous according to the European regulation regarding the classification of mixtures. It is recommended to wear gloves and goggles and to take the usual precautions for the handling of chemicals.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

All relevant references for the product are available upon request and from www.mapei.com